

## ABSTRACT

A liquid fuel reforming and blending method, whereby after heavy oils are dissolved in alkanes, the blending method is utilized to form a fuel applicable for usage in diesel oil combustion systems and slow-speed diesel engine systems. Wherein the alkanes employed are polyaromatic alkanes (C9~C20) acquired from reforming oil from bottom of a gasoline tower or reforming oil from bottom of an aromatics extractive tower. The alkanes and the heavy oils are blended in percentage proportions by weight ranging from 10% to 90%, which thereby achieves a flash point temperature of above 45°C. Thus, by means of the reforming and blending method, after blending the heavy oils and the alkanes, a new type heavy fuel oil is converted therefrom, thereby increasing economical value of the heavy oils.

15

20